



CORPORATION

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MATERIAL SAFETY DATA SHEET

EFFECTIVE DATE: October 1, 1986

I. IDENTIFICATION

PRODUCT NAME: Engine Oil, 20W20,
30, 40

PRODUCT CODE:

CHEMICAL NAME: N/A

CHEMICAL FAMILY: Petroleum Hydrocarbon

FORMULA: Complex mixture of Petroleum Hydrocarbons plus Additives

SYNONYMS: Engine Oil

DEPARTMENT OF HAZARD CLASSIFICATION: Not hazardous under DOT 172.101

TRANSPORTATION: SHIPPING NAME: Petroleum Lubricating Oil IDENTIFICATION #: None

CAS #: Mixture

CAS NAME: Mixture

II. TYPICAL COMPOSITION

<u>MATERIAL</u>	<u>CAS #</u>	<u>% wt.</u>	<u>TLV (UNITS) (SOURCE)</u>	<u>HAZARD</u>
<u>Exact Formulation - Proprietary Information</u>				
Mineral Oils		Mixture	>90	5mg/M ³ TWA ACGIH
Additive Package*		Mixture	<10	

*Additive manufacturers consider their additive package to be proprietary information.
%We consider our blend of mineral oils to be proprietary information.

III. PHYSICAL DATA

BOILING POINT, 760 mm. Hg:

PHYSICAL STATE: Liquid

SPECIFIC GRAVITY (H₂O = 1): \approx .87

VAPOR PRESSURE AT 20° C: N/A

VAPOR DENSITY (AIR = 1): N/A

SOLUBILITY IN
WATER, % BY WT: Nil

PER CENT VOLATILES
BY VOLUME: N/A

EVAPORATION RATE
(Butyl Acetate = 1) N/D

APPEARANCE AND ODOR: Dark Liquid

IV. HEALTH HAZARD DATA

Oil Mist, Mineral - TWA 5 mg/M³ ACGIH 1983-1984
TLV AND SOURCE: STEL 10mg/M³ ACGIH 1983-1984

ACUTE EFFECTS OF OVEREXPOSURE

- SWALLOWING: Not expected to be acutely toxic by ingestion. May cause nausea and diarrhea.
- SKIN ABSORPTION: No data available.
- INHALATION: Not expected to be toxic by inhalation. However, breathing mineral oil mists at levels above the TLV may cause respiratory irritation and possible discomfort. The creation of an oil mist is unlikely when used as a hydraulic oil.
- SKIN CONTACT: Material expected to cause no more than minor skin irritation following prolonged and/or repeated contact.
- EYE CONTACT: May cause minor eye irritation.

CHRONIC EFFECTS OF OVEREXPOSURE

EMERGENCY AND FIRST AID PROCEDURES

- SWALLOWING: If material is swallowed, do not induce vomiting and contact a physician.
- SKIN: Wash skin thoroughly with soap and water. Launder soiled clothing.
- INHALATION: Although inhalation of this material is unlikely, if respiratory discomfort or irritation occurs due to inhalation of oil mist, move person to fresh air. Contact a physician if discomfort or irritation continues.
- EYES: Flush with water for 15 minutes. If irritation continues, contact a physician.

V. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (test method(s)): 400°F minimum (C.O.C.)

AUTO IGNITION TEMPERATURE: N/D

FLAMMABLE LIMITS IN AIR, % BY VOLUME: N/A

EXTINGUISHING MEDIA: CO₂, Dry Chemical, Foam, Water Fog. Water may be ineffective in fighting an oil fire unless used by experienced fire fighters.

SPECIAL FIRE FIGHTING PROCEDURES: For small fires involving this material, no special procedure or precautions are necessary. For large storage fires involving this material and/or other lubricating products, do not enter any enclosed or confined space without full protective equipment including self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

VI. REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: High temperatures and open flame.

INCOMPATIBILITY (materials to avoid): Strong oxidizing agents.

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS: Carbon dioxide, water vapor. May produce oxides of sulphur, nitrogen and phosphorus. Incomplete combustion can produce carbon monoxide.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: None known.

VII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Clean up spills as soon as possible. Absorb large spills with commercially available absorbent materials, such as absorbent clay.

WASTE DISPOSAL METHOD:

Place contaminated material in disposable containers and bury in an approved landfill site per local, state and federal regulations.

VIII. PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (specify type): Not applicable for intended use. However, if unusual operating conditions create mist concentrations in excess of the TLV, an approved respirator is recommended.

VENTILATION: None needed for intended use. Special ventilation is necessary only if unusual operating conditions create mist concentrations in excess of the TLV.

PROTECTIVE GLOVES: Impervious protective gloves can minimize skin exposures where prolonged or repeated exposures can occur.

EYE PROTECTION: Although none normally necessary for intended use, safety glasses or a face shield can reduce the possibility of accidental eye contact.

OTHER PROTECTIVE EQUIPMENT: None normally necessary for intended use.

IX. SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Do not store near high heat or open flames.

PRECAUTIONS DURING USE: Avoid prolonged or frequently repeated skin contact with this material. Skin contact can be minimized by wearing impervious protective gloves. As with all products of this nature, good personal hygiene is essential. Hands and other exposed areas should be washed thoroughly with soap and water after contact, especially before eating and/or smoking. Regular laundering of contaminated clothing is essential to reduce indirect skin contact with this material.

NOTES